

Summary of selected water-quality data from ground-water samples collected from February 1995 through December 2013 as a part of the *Equus* Beds Ground-Water Recharge Project.

[mg/L, milligrams per liter; DWA, drinking water advisory; SDWR, secondary drinking water regulation; <, less than; MCL, maximum contaminant level; µg/L, micrograms per liter; cols/100 mL, colonies per 100 milliliters; MCLG, maximum contaminant level goal]

Phase II Sites									
MW-1 Shallow, MW-1 Deep, MW-2 Deep, MW-3 Shallow, MW-3 Deep, MW-4 Shallow, MW-4 Deep, MW-5 Shallow, MW-5 Deep, MW-6 Shallow, MW-6 Deep, SMW-S11 (MW-7 Shallow), DMW-S10 (MW-7 Deep), SMW-S13 (MW-8 Shallow), DMW-S14(MW-8 Deep), ADR-P2 Diversion									
Compound or fecal indicator bacteria	Water-quality criteria	Number of Samples	Minimum	Maximum	Mean	Median	Percentage of Samples Detected	Percentage of Samples Exceeding Criteria	Percentage of Replicate Samples Exceeding Criteria
Sodium, dissolved (mg/L)	20 mg/L (DWA) ^a	338	13.6	126	62.264	63.83	100	97.9	100.0
Sulfate, dissolved (mg/L)	250 mg/L (SDWR) ^a	337	18.8	475.271	94.915	58.8	100.0	8.011869436	23.52941176
Chloride, dissolved (mg/L)	250 mg/L (SDWR) ^a	337	4.53	156	44.476	41	99.1	0.00	0
Nitrite plus nitrate as nitrogen, dissolved (mg/L)	10 mg/L (MCL) ^a	338	--	24	3.593*	*1.525	88.46153846	13.90532544	11.36363636
Arsenic, dissolved (µg/L)	10 µg/L (MCL) ^a	250	--	59.08	4.028*	*2.665	78.0	6.4	15.0
Iron, dissolved (µg/L)	300 ug/L (SDWR) ^a	338	--	23110	625.733*	*1.241	26.9	10.95	32.35294118
Manganese, dissolved (µg/L)	50 µg/L (SDWR) ^a	338	--	1274	157.227*	*130.000	74.9	55.6	55.88235294
Total coliform bacteria (cols/100 mL)	0 cols/100 mL (MCLG) ^a	231	--	196	2.164*	*0.088	19.9	19.9	16.7
Fecal coliform bacteria ^c (cols/100 mL)	200 cols/100mL (MCLG) ^d	266	0.5	65	1	0.5	5.263157895	0.0	0.0
	2,000 cols/100mL (MCLG) ^d	99	0.5	1	1	0.5	0.0	0.0	0.0
<i>Escherichia coli</i> ^e (cols/100 mL)	262 cols/100mL (MCLG) ^f	88	0.5	2	1	1	1.136363636	0.0	0.0
	2,358 cols/100mL (MCLG) ^f	46	0.5	1	1	0.5	0	0.0	0
Atrazine herbicide	3 µg/L as an annual average ^a (MCL)	199	0.0005	1.39	0.06	0.0204	53.3	0.0	0
Triazine herbicide screen, dissolved (µg/L as Atrazine)	3 µg/L as an annual average ^a (MCL)	333	0.05	1.8	0.08	0.05	12.3	0.0	0.0
Alachlor (µg/L)	2 µg/L (MCL) ^a	202	0.001	0.0341	0.010	0.004	2.5	0.00	0

^a U.S. Environmental Protection Agency (2006)

^b Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

^c For fecal coliform bacteria, the primary contact recreation surface-water criterion of 200 cols/100mL was used from April 1 - October 31 (when most water-contact recreation occurs); from November 1 - March 31, the criterion of 2,358 cols/100mL was used.

^d Kansas Department of Health and Environment (2001)

^e For *Escherichia coli*, the primary contact recreation surface-water quality criterion of 262 cols/100mL was used from April 1 - October 31 for Class B (public access) stream segments; from November 1 - March 31, the criterion of 2,358 cols/100mL was used.

^f Kansas Department of Health and Environment (2004)